Claims

1. An execution device for executing an application program created in an object-oriented language, the application program including one or more classes that each have one or more methods, and confidentiality information that expresses whether or not confidentiality is necessary,

the execution device comprising:

an encryption determination unit operable to determine whether

or not encryption is necessary, with reference to the confidentiality

information; and

an object recording unit operable to, when the method is to be executed, record, in a memory, an object including data that the method manipulates,

- wherein, when the encryption determination unit determines that encryption is necessary, the object recording unit records the object with the data encrypted.
 - 2. The execution device of Claim 1, wherein
- the confidentiality information further includes information showing a level of confidentiality,

the execution device further comprises an encryption method determination unit operable to, with reference to the confidentiality information, determine an encryption method, and

when the encryption determination unit judges that encryption is necessary, the object recording unit records the object with the data encrypted according to the determined encryption method.

3. The execution device of Claim 1, wherein when overwriting the data included in the object using other data, if the data included in the object is encrypted, the other data is recorded encrypted.

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4. The execution device of Claim 3, wherein

the object recorded in the memory includes information showing whether or not the data in the object is encrypted, and

when the information shows that data in the object is encrypted,

the data is recorded encrypted.

- 5. The execution device of Claim 1, further comprising a data judgment unit operable to judge whether or not the data is data necessary for specifying an address location of other data, wherein
- when the data judgment unit judges that the data is data necessary for specifying an address location of other data, encryption is suppressed.
 - An execution device for executing a program,
- the program including data and confidentiality information showing whether or not confidentiality is necessary,

the execution device comprising:

an encryption determination unit operable to judge whether or not encryption is necessary, with reference to the confidentiality information; and

a load unit operable to load the data to a main memory when an executable program is executed,

wherein, when the encryption determination unit judges that

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encryption is necessary, the load unit encrypts the data and loads the encrypted data.